

<p style="text-align: center;"><b>NSLS II</b></p> <p style="text-align: center;"><b>BROOKHAVEN NATIONAL LABORATORY</b></p>	Prepared by: Lee Hammons <i>LH</i> 2/9/2018

<b>TITLE:</b>  <p style="text-align: center; color: blue;">IRR Preliminary Report</p> <p style="text-align: center; color: blue;">7-ID Spectroscopy Soft and Tender (SST) Beamlines SST1 and SST2</p>
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The IRR Team has completed the on-site readiness review and document analysis for the subject instrument. This report provides a preliminary listing of the pre-start findings identified in the review.

The Review Team identified nine pre-start findings for the 7-ID beamlines SST1 and SST2:

- **Finding:** The Instrument Readiness Plan NSLSII-7ID-PLN-002 is not complete. Several of the items in the plan do not bear signatures.
- **Finding:** It appears that there may be some devices that are inappropriately/overly configuration controlled. These devices may inhibit the progress of commissioning in their current state. These include, for example, certain actuators on the PGM.
- **Finding:** Baffle slits DM6 (FS12) for the SST-1 branch and DM3 (FS8) in the transfer section are not included as potential scattering sources in the radiation survey plan.
- **Finding:** Item 7-ID2-FLG-01 appears on the RSC checklist but is not labeled in the field. The item is on a chamber that is out of the scope of the review
- **Finding:** Lead glass was found that is not on the Radiation Safety Component checklist but should appear because these are RSC components. Field inspection suggests there may be more lead glass items that have not been identified.
- **Finding:** 7-ID1-VWPT-04 cannot be inspected from the floor. A ladder or mirror would be required.

- **Finding:** There is an open ATS item (ATS 8115.15.1) to Analyze the Survey Results to Confirm Clearances on the M Branch White-Beam Stop.
- **Finding:** 7-ID Beamlines SST-1 and SST-2 determined that one of the RSC components (an aperture) was 0.6 mm lower than as shown in the drawing used to determine Ray-Tracings and Shielding requirements. The disposition of this discrepancy must be formally resolved and documented. **[Self-Identified Pre-Start]**
- **Finding:** Several travelers had not been completed prior to the IRR review. **[Self-Identified Pre-Start].**

Open Travelers:

- Photon Delivery System,
- Secondary Beam Shielding 1
- Secondary Beam Shielding 2
- Secondary Beam Shielding 3
- L Branch Shielding pipe
- M Branch Shielding pipe
- Vacuum Switches
- End Station Equipment (HAXPES)
- End Station Equipment (NEXAFS)
- SST Beamline Commissioning Readiness

Authorization to begin beamline technical commissioning of 7-ID beamlines SST1 and SST2 must wait for closure of the pre-start items listed above.

Post-start findings and observations will be detailed in a final IRR report.